

HYDROCARBON SYNTHESIS PROCESS USING PRESSURE SWING
REFORMING

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Abstract of the Disclosure

The invention provides a method for producing liquid hydrocarbons by first generating in a pressure swing reformer a synthesis gas stream having a mole ratio of $H_2:CO$ greater than 2:1. Then, a portion of the hydrogen is
10 separated to produce a synthesis gas stream having a mole ratio of $H_2:CO$ of about 2:1 which steam is then introduced into a hydrocarbon synthesis reactor for conversion to liquid products.